MEYERTECH
SECURITY with VISION

ZSI-320

USER MANUAL

ZSI-320

CCTV ISDN Controller
Issue 03

ZSI-320

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Introduction

Thank you for purchasing Meyertech's ZSI-320.
Please read this user guide prior to using
This product. It will help you to achieve the maximum benefit from the product. The manual covers installation, operation and maintenance of a ZSI-320.

What is a ZSI-320?

A ZSI-320 is part of the Zonevu Site Controller family. It allows the interconnection of remote sites via an ISDN line.

The unit can operate as either a transmitter or a receiver.

Combined with other members of the Meyertech site controller family, an operator can seamlessly control cameras located throughout the country.

When combined with other elements of Meyertech's Site Controller family, a unit can, under alarm conditions, automatically contact a remote control room or can be part of a seamless dial on demand service.

KEY FEATURES

- ISDN connection
- Intersite communications
- Video transmission
- System backup
- 64K or 128K ISDN operation

.

The features described in this manual refer to :

Version 1.5.2.0 of the ZSI-320 firmware

This equipment is designed to make automated connections over an ISDN network. Meyertech can accept no responsibility for any call charges incurred.

The information in this manual is believed to be accurate and reliable. However, Meyertech Limited assumes no responsibility or liability for its use, or for any infringement of patents or other rights of third parties, which may result from its use. No license is granted by implication or otherwise under any patent or other rights of Meyertech. All specifications are subject to change without prior notice.

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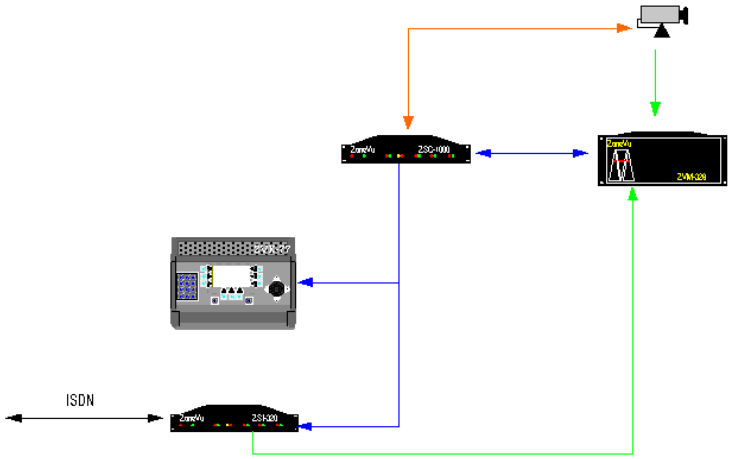
ZSI-320

Operation

Control Room #1

1. Local operator
2. Import only over ISDN



PROJECT:	ISS.	DRN.	CHKD.	DATE	NOTES
DRWG No: installations.vsd	01	MDW		04-07-03	NONE
TITLE: ZSI-320 installations					
CLIENT: MEYERTECH LTD					
SCALE: NTS					

RS422
RS232
RS485
VIDEO
LAN

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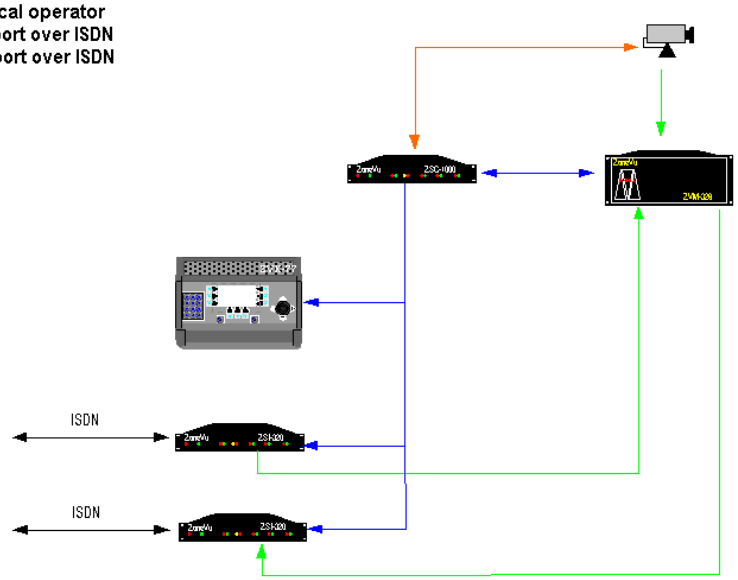
OLDHAM OL4 1DE
TEL: +44 (0) 161 628 8406
email support@meyertech.co.uk

Control Room #2

1. Local operator
2. Import over ISDN
3. Export over ISDN



PROJECT:	ISS.	DRN.	CHKD.	DATE	NOTES
DRWG No: installations.vsd	01	MDW		04-07-03	NONE
TITLE: ZSI-320 installations					
CLIENT: MEYERTECH LTD					
SCALE: NTS					

RS422
RS232
RS485
VIDEO
LAN

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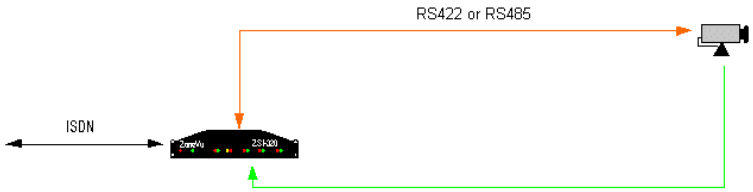
Remote Site #1

1. Export only over ISDN



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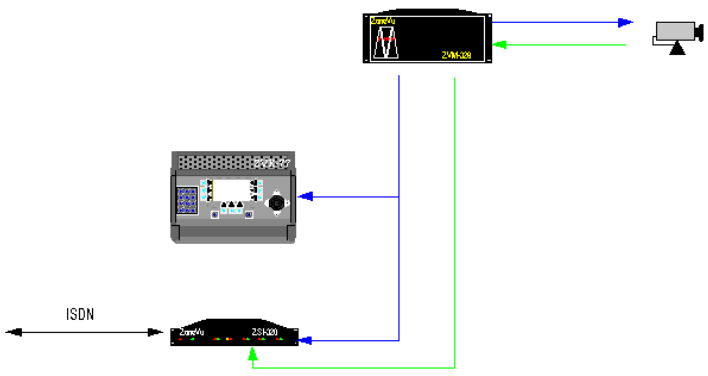
DRWG No: Installations.vsd	01 02	MDW MDW		02-12-02 04-07-03	NONE RS422 RS232 RS485 VIDEO LAN		
TITLE: ZSI-320 installation							
CLIENT: MEYERTECH LTD							
SCALE: NTS							

Remote Site #2

1. Local operator
2. Export only over ISDN



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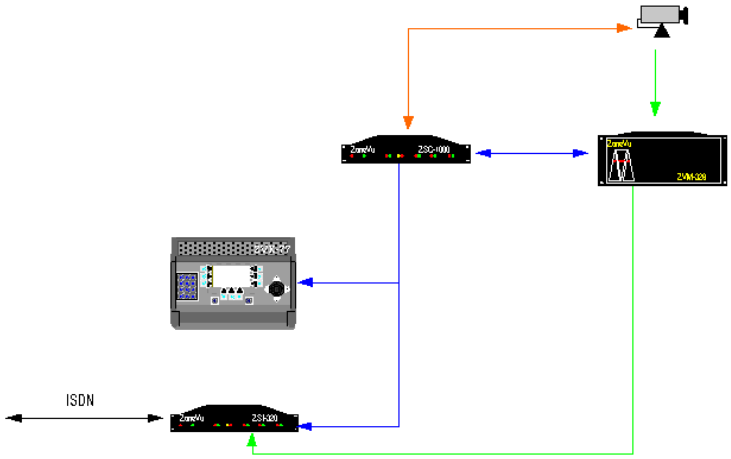
DRWG No: Installations.vsd	01 02	MDW MDW		02-12-02 04-07-03	NONE RS422 RS232 RS485 VIDEO LAN		
TITLE: ZSI-320 installations							
CLIENT: MEYERTECH LTD							
SCALE: NTS							

Remote Site #3

1. Local operator
2. Export only over ISDN



PROJECT:	ISS.	DRN.	CHKD.	DATE	NOTES
DRWG No: installations.vsd	01	MDW		04-07-02	NONE
TITLE: ZSI-320 installations					RS422 RS232 RS485 VIDEO LAN
CLIENT: MEYERTECH LTD					
SCALE: NTS					

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Installation

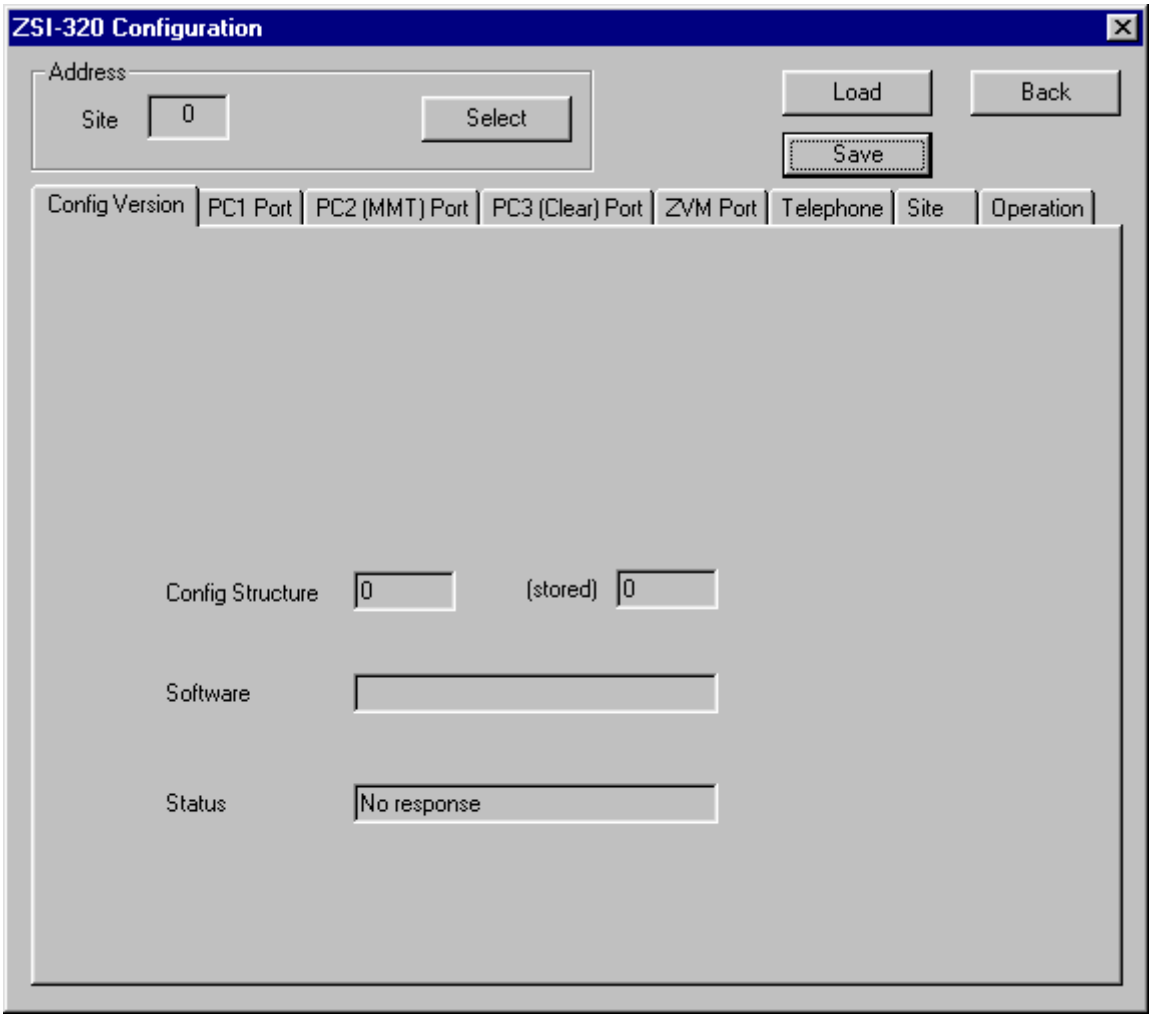
See ZSI-320 Installation Guide – available from Meyertech Technical Support

Configuration

Configuration of the ZSI-320 is done using Meyertech's Windows based configuration tool Mpower

Config Version

This entry screen shows information relating to the firmware installed in the ZSI-320



Config structure

The version number of the configuration data format within the attached ZSI-320. – see Mpower manual for more details.

(stored)

The version number of the configuration data format stored on the PC. – see Mpower manual for more details.

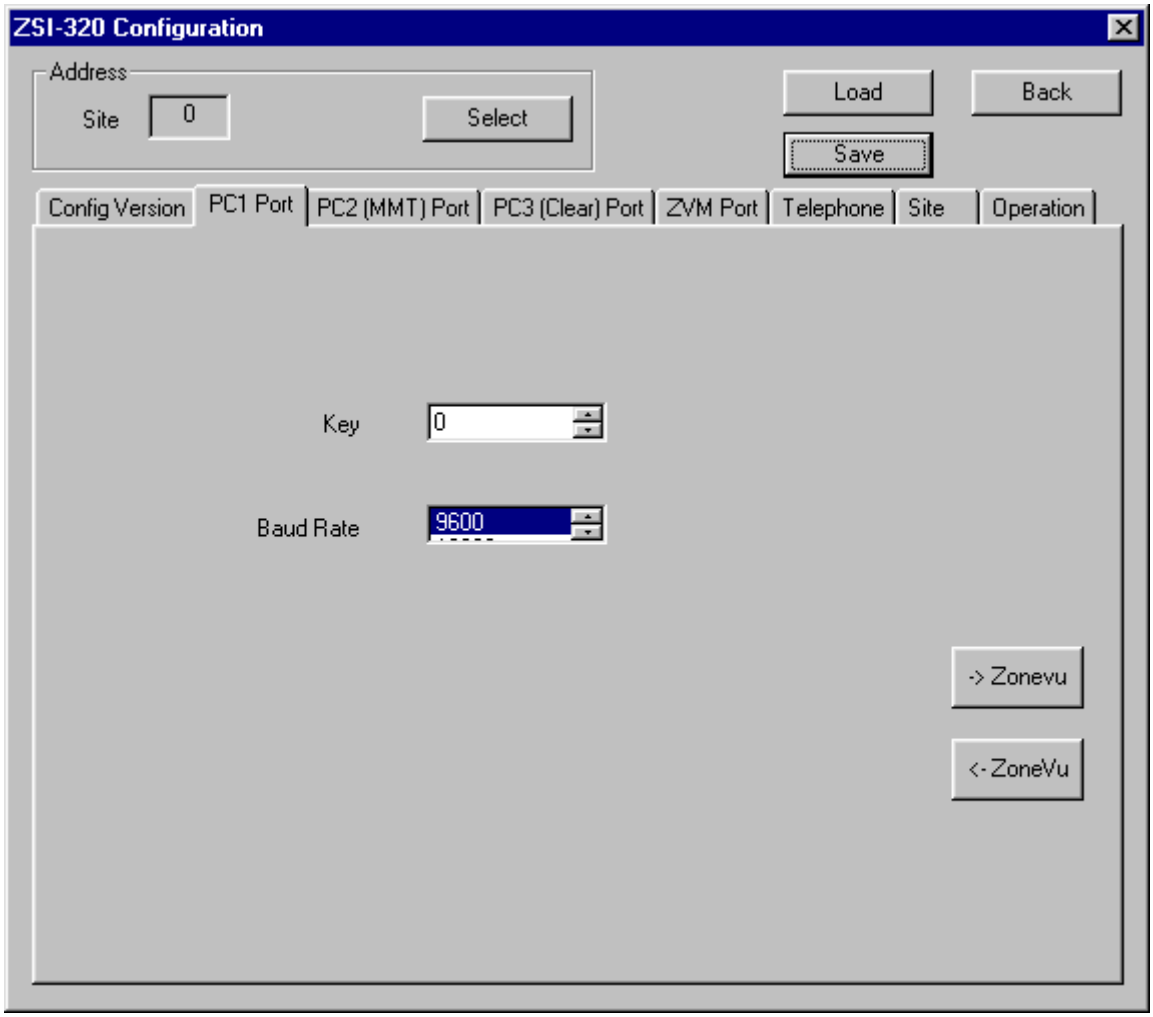
Software

The version number of the ZSI-320's firmware

Status

The status of the communications – see Mpower manual for more details

PC1 Port



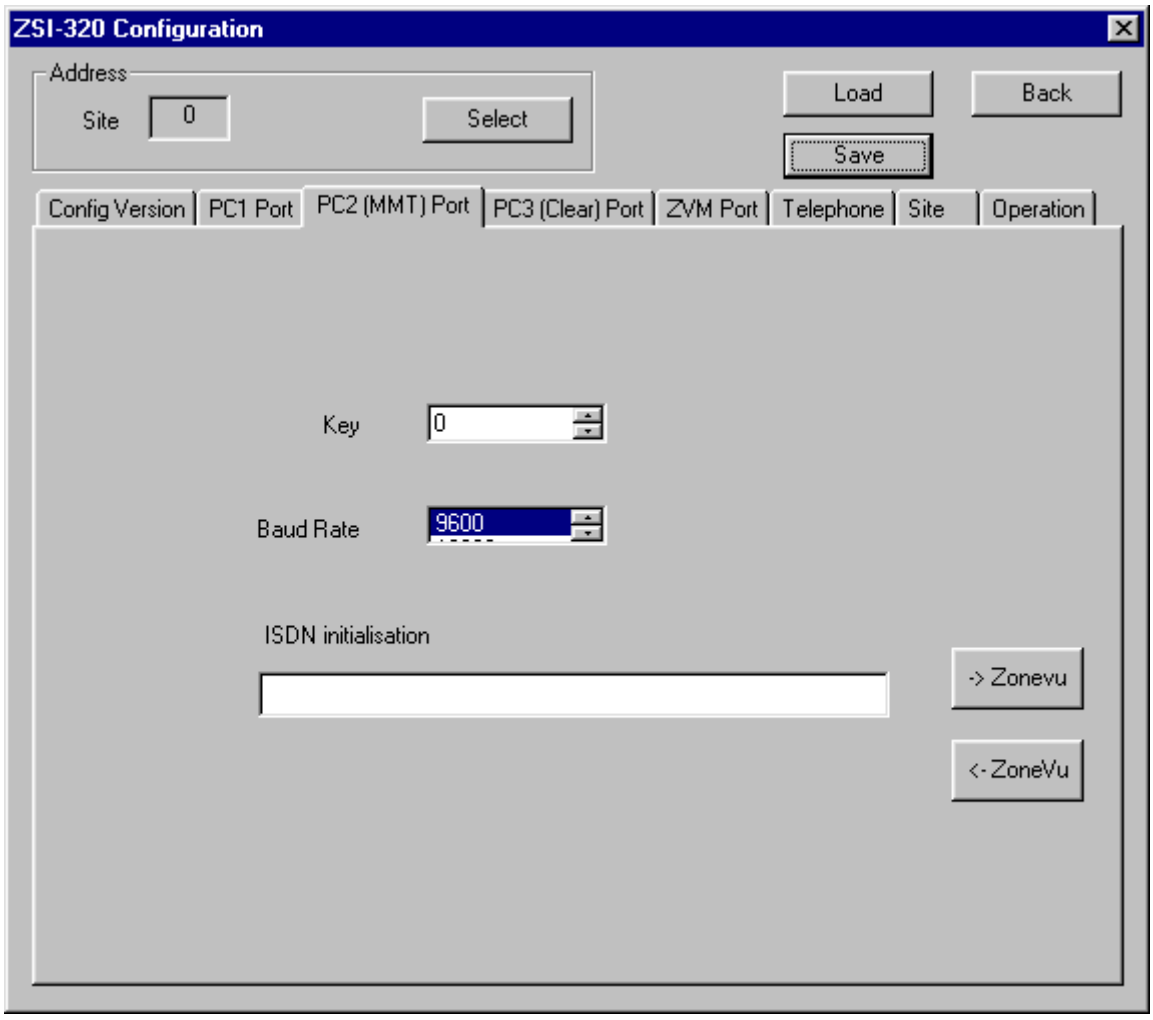
Key

Internal use only – MUST NOT BE MODIFIED

Baud Rate

Internal use only – MUST NOT BE MODIFIED

PC2 (MMT)Port



Key

Internal use only – MUST NOT BE MODIFIED

Baud Rate

Internal use only – MUST NOT BE MODIFIED

ISDN initialisation

A configuration string used to initialise the ISDN link.
Initialisation is done only at power up. Re-power the unit for this to take effect.
Default = MMTAUDIOECHOON\

The following options may be used:

Audio:

MMTAUDIOLINEINVOLn\	Sets line input volume to n%
MMTAUDIOLINEOUTVOLn\	Sets line output volume to n%
MMTAUDIOECHOON\	Switches on echo cancellation

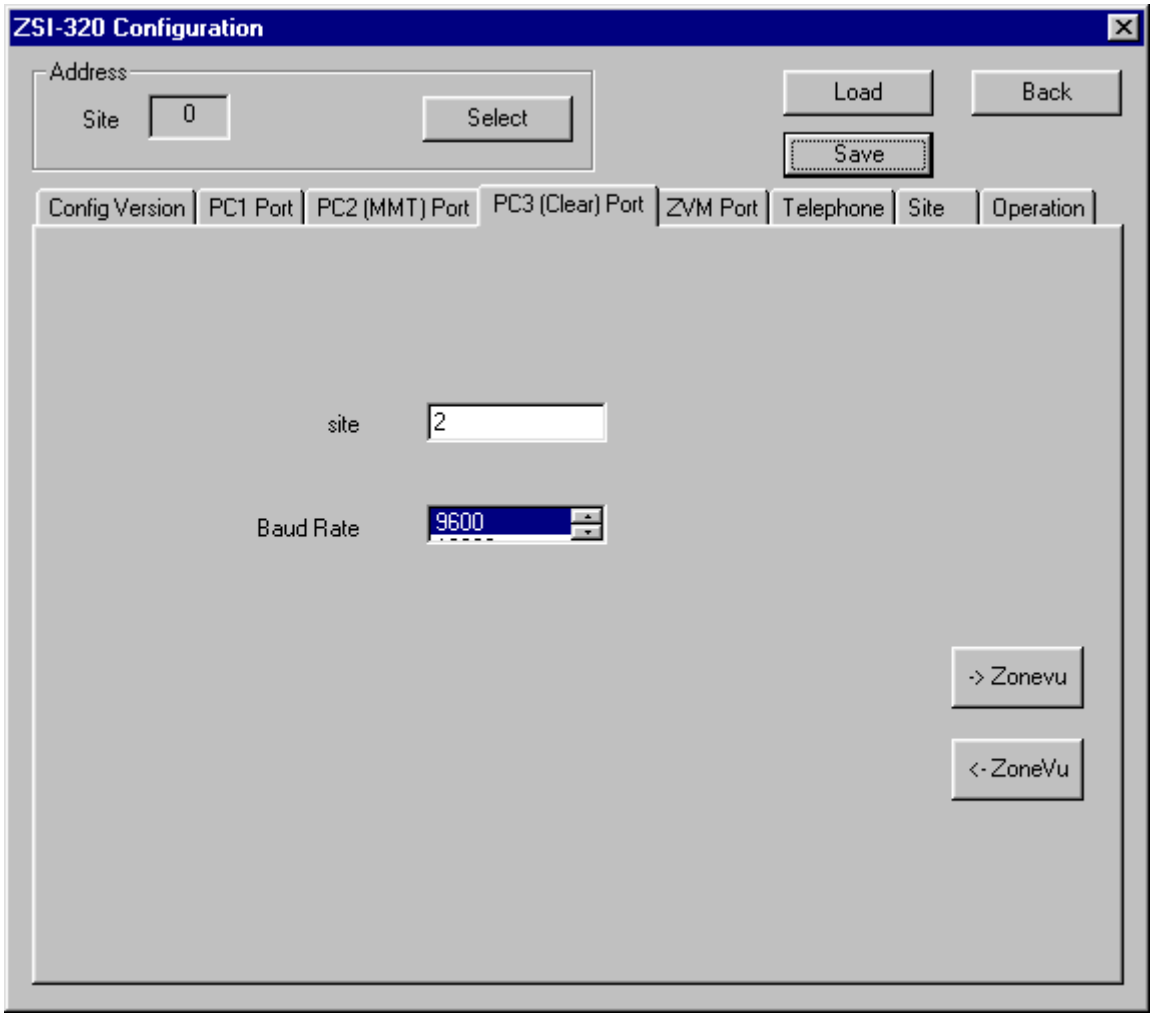
Video:

MMTVIDEORATEn\	Sets the maximum video refresh rate to n frames per second. Range: 1 – 15

If none of the options are entered, defaults are:

Video Rate	1 frame per second
Audio in Volume	40%
Audio out Volume	100%
Audio Echo cancellation	Off

PC3 (Clear) Port



site

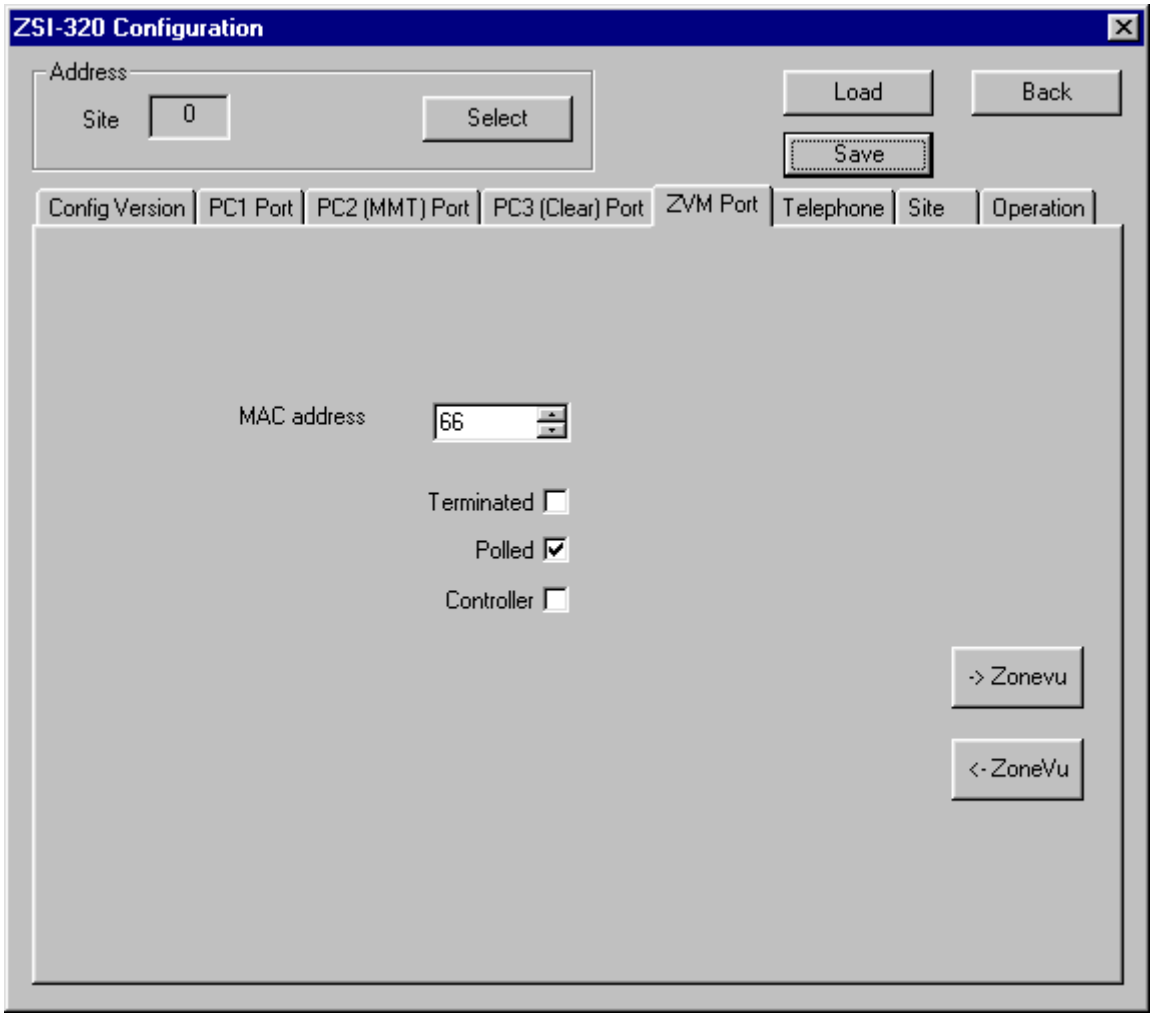
The site number associated with the ZSI-320s location.

Default = 1

Baud Rate

Internal use only – MUST NOT BE MODIFIED

ZVM Port



MAC address

The address to which this unit will respond to polls from another control unit.

Default = 8

Terminated

The state of the 120R line terminator

Ticked = Un-terminated

Un-ticked = terminated.

Default = Un-terminated

Polled

To indicate that the unit should expect to be polled. If **On** the unit will wait for a poll before transmitting any information on this port.

Default = **On**

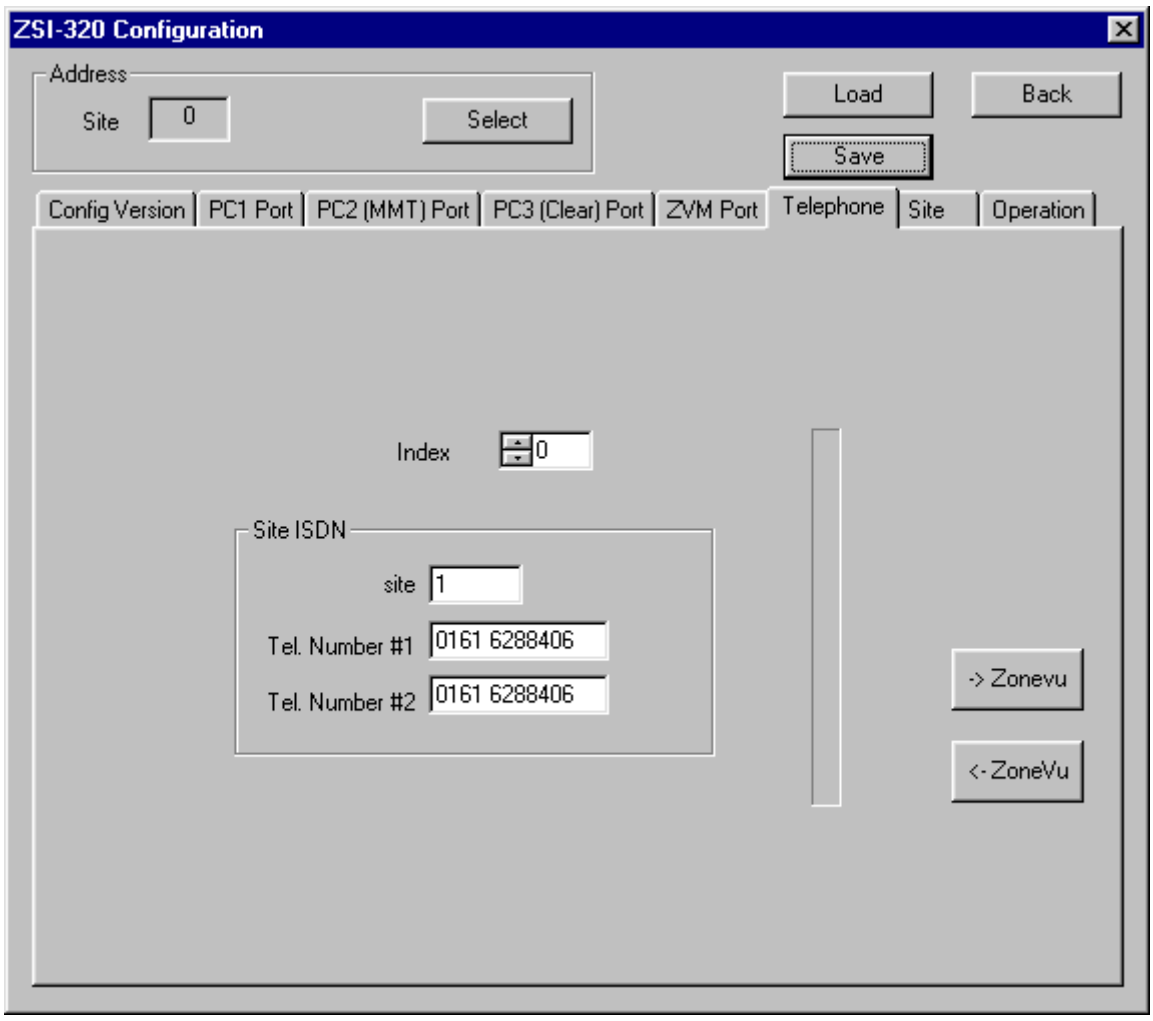
Controller

To indicate that the unit is to make the decision on telemetry control from operators. If set to **Off** the unit will forward control request messages to the device on the ZVM port.

Default = **Off**

Telephone

The telephone numbers for up to 50 sites (20 on earlier versions of ZSI-320) can be configured.



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In each entry, the following can be configured

site

The site number of the remote dialup site.

Default = 0

Tel. Number #1

The first ISDN number for the site

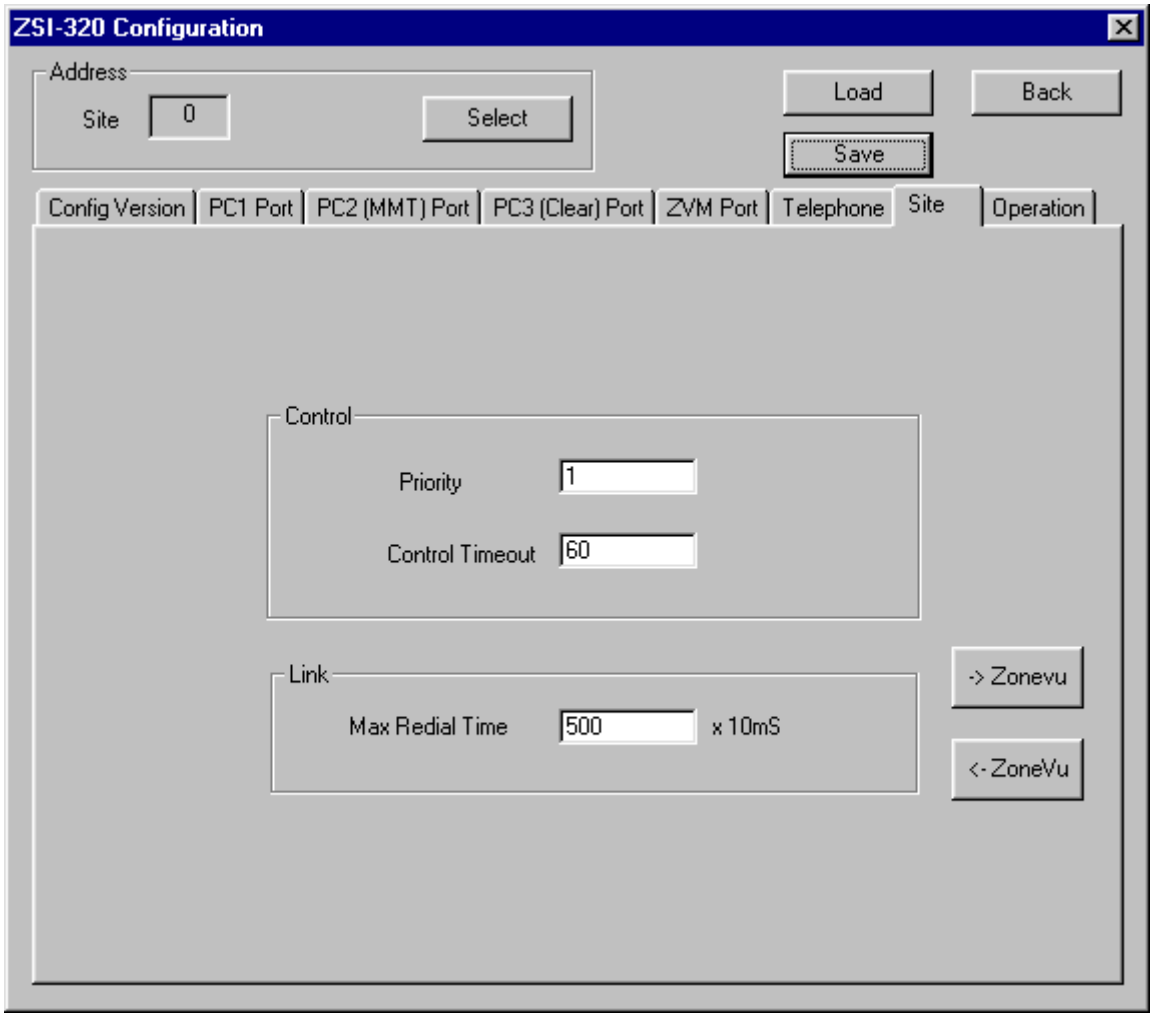
Default = blank

Tel. Number #2

The second ISDN number for the site. This number is optional and a single channel connection can be made if required by using just one number.

Default = blank

Site



Priority

The priority used when requesting camera control from a local matrix on behalf of an operator using a remote video phone – see MM225 manual.

Default = 4 (1 lowest)

Control Timeout

The time period, in seconds, after which exclusive control of a camera is automatically relinquished if a remote operator does not move it.
This timeout is only applied to control from remote sites.

Default = 60 (seconds)

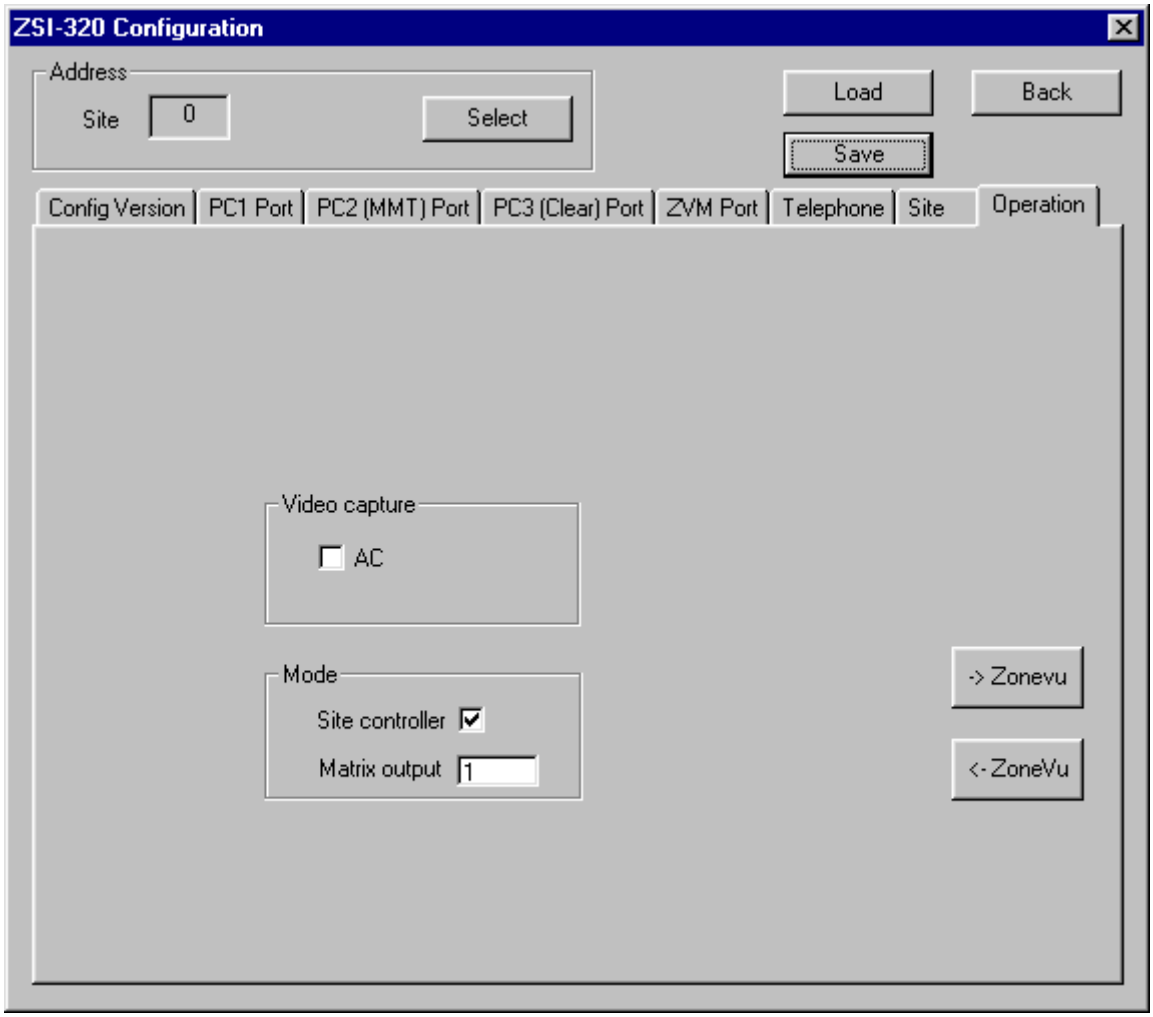
Max Redial Time

When an outgoing call is un-answered, the unit will automatically re-dial after a random period of time. This value defines the maximum time that this delay can be.

A value of 0(zero) disables all automatic redialling, both when a call is un-answered and if the call is ended unexpectedly.

Default = 500 (5 seconds)
No redial = 0

Operation



Video capture

AC
Internal use only – MUST NOT BE MODIFIED

Mode

Site controller
To indicate the presence of an additional site controller unit. If the box is **ticked** all messages are forwarded on to the site controller to handle.
If set to **Off** the unit will resolve all switching and telemetry issues itself. It will use the matrix output number defined in the next section and command the local matrix to switch.

Default = **On**

Matrix Output
The matrix output number, which is connected to the ZSI-320 video input.

Default = 4

Diagnostics

These commands, which can be issued by Mpower, are included in this document to assist in the diagnosis of problems.

The use of these commands is at the users own risk and is subject to change without notice.

Fn	Name	Purpose	Notes
0	Initialise	Initialise all modules	
1	LoadDefaultConfiguration	Reset configuration.	All static configuration is set to factory defaults
2			Reserved
3	InitialisePC1Port	Re-initialise PC1 port.	Required after changes to comms settings
4	InitialisePC2Port	Re-initialise PC2 port.	Required after changes to comms settings
5	InitialisePC3Port	Re-initialise PC3 port.	Required after changes to comms settings, or AC video phone mode
6	InitialiseZvmPort	Re-initialise Zvm port.	Required after changes to comms settings.
7			Reserved
8			Reserved
9	InitialiseCmdHandler	Re-initialise command stack.	Discards all current commands. May cause memory loss. For debugging only
10			Reserved
11			Reserved
12			Reserved
13			Reserved
14			Reserved
15			Reserved
16	InitialiseDialup	Initialise call status	Assumes call status is idle
17	InitialiseMMT	Initialise 8120 board	Reloads all configuration into 8120, after power-up delay
18	InitialiseDTMF	Initialise DTMF interface	
19	InitialiseVideoPhone	Initialise camera control status	Initialises control statuses used when no site controller is present

Meyertech Limited is a member of the CCTV User Group.

Support

Meyertech offer comprehensive levels of support during the product's warranty period. Our support team will be happy to help with any problem you may experience relating to the installation or operation of the ZSI-320:

1. Telephone support (+44(0)161 628 8406) which is available during normal office hours 9AM – 5PM Monday to Friday excluding Bank holidays. This support is free of charge.
2. Email support. Available 24 hours a day. Our normal response to emails is next working day. This support is free of charge. support@meyertech.co.uk
3. By Facsimile (+44(0)161 628 9811). Available 24 hours a day. Our normal response to facsimiles is next working day. This support is free of charge.
4. Site visits. Subject to availability, our engineers are available to attend site to assess and help with particular system problems firsthand. This service is chargeable. Please contact our Support department on +44(0)161 628 8406 for further details and availability.

Meyertech offer Extended Support Contracts on all their software products. Please contact our Sales department on 0161 628 8406 to discuss your requirements or visit our website www.meyertech.co.uk

Maintenance

The ZSI-320 requires no Planned Preventive Maintenance periods (PPM's) as it is mainly solid state in design.

The ZSI-320 contains no serviceable parts and should be returned to our Service Centre in Scunthorpe for repair or replacement under warranty. Any repairs, attempted repairs or replaced components not carried out by the Meyertech Service Centre will void all Meyertech warranties and liabilities.

If your ZSI-320 has to be returned to our Service Centre please follow the returns procedure below, otherwise delays may be incurred in returning or replacing the ZSI-320.

Returns Procedure

Prior to returning your ZSI-320.

1. Contact our Service Centre by phone on 01724 278833 or by email support@meyertech.co.uk for a Goods Return Number.
2. The GRN will be logged by our staff along with the reported problem.
3. Pack the ZSI-320 into the original packing it was delivered in. Failure to do so means the unit may incur further damage in transit, which Meyertech cannot be responsible for.
4. Organise delivery of the ZSI-320 back to our Service Centre in Scunthorpe. Use a reputable carrier, as again Meyertech cannot accept liability for loss of goods in-transit.
5. On receiving the ZSI-320 our staff will, after initial examination advise of the course of action we intend to take.
    a. Repair the ZSI-320 under warranty. The ZSI-320 will be repaired and returned to you free of charge.
    b. Replace the ZSI-320 under warranty. The ZSI-320 will be repaired and returned to you free of charge.

c. Repair the ZSI-320 at a quoted cost. An official purchase order to cover the cost and return of the product will be required prior to commencement of repair.
d. Advise you that the ZSI-320 is not repairable. You can then decide to have the product returned to you at the standard delivery charge or we can dispose of the product free of charge.

Meyertech Service Centre
Unit 4E Queensway Business Centre
Dunlop Way
Scunthorpe
DN16 3RN

Tel: 01724 278833
Fax: 01724 289099

Disposal

There are no additional requirements beyond safe working practice in the decommissioning of the Meyertech ZSI-320.

However the ZSI-320 contains printed circuit boards populated with electronic components. The whole unit must be returned to **Meyertech Service Centre** for final disposal. Please follow the normal returns procedure.

Warranty

Please refer to Meyertech Limited 'Terms & Conditions of Sale of Goods & Services' for interpretation.

1. If the Buyer establishes to the Seller's reasonable satisfaction that there is a defect in the materials or workmanship of the Goods manufactured, then the Seller shall at its option, at its sole discretion and within a reasonable time,
    a. arrange for the repair or making good such defect or failure in such Goods free of charge to the Buyer (including all costs of transportation of any Goods or materials to and from the Buyer for that purpose),
    b. replace such Goods with Goods which are in all respects in accordance with the Contract, or

    subject, in every case, to the remaining provisions of this Condition 1 provided that the liability of the Seller under this Condition 1 shall in no event exceed the purchase price of such Goods and performance of anyone of the above options shall constitute an entire discharge of the Seller's liability under this warranty.

2. Condition 1 shall not apply unless the Buyer:

    a. notifies the Seller in writing of the alleged defect within 12 (twelve) months from delivery or such other period or periods as may be agreed in writing between the Seller and the Buyer, and
    b. allows the Seller a reasonable opportunity to inspect the relevant Goods.

3. For the avoidance of doubt, the Seller shall be under no liability under the warranty in Condition 1 above:
    a. where such defects arise from any drawing, design or specification supplied by the Buyer; or
    b. where such defects arise from fair wear and tear, wilful damage, or negligence of a party other than the Seller (or its employees or authorised personnel), abnormal working conditions, failure to follow the Seller's instructions (whether oral or in writing), misuse or alteration or repair of the Goods without the Seller's approval; or
    c. where such defects arise in parts, materials or equipment which have not been manufactured or designed by the Seller but have been purchased at the Buyer's request by the Seller from the Buyer's designer and manufacturer or from some other third party (the **"Third Party Supplier").**
    d. if the total price of the Goods has not been paid by the due date for payment
    e. in respect of any type of defect, damage or wear specifically excluded by the Seller by notice in writing: or
    f. if the Buyer makes any further use of the Goods after giving notice in accordance with Clause 1

4. Any repaired or replaced Goods shall be redelivered to the Buyer free of charge to the original point of delivery but otherwise in accordance with and subject to these Conditions.

5. Alternatively to Condition 1 the Seller shall be entitled at its absolute discretion on return of the defective Goods to the Seller (at the Seller's request) to refund the price of the defective Goods in the event that such price shall already have been paid by the Buyer to the Seller, or, if such price has not been paid, to relieve the Buyer of all obligation to pay the sum by the issue of a credit note in favour of the Buyer in the amount of such price.

6. In respect of all Goods supplied to the Seller by a Third Party Supplier the Seller will on request pass on to the Buyer (in so far as reasonably possible) the benefit of any warranty given to the Seller by such Third Party Supplier and will (on request) supply to the Buyer details of the terms and conditions of such warranty and copies of any relevant product information sheets, technical data sheets or product leaflets issued by such Third Party Supplier and the Buyer shall be solely responsible to the entire exclusion of the Seller for complying with the same.

7. For the purposes of Condition 1 references to Goods shall be deemed to exclude software.

8. The Buyer acknowledges that software in general is not error-free and agrees that the existence of such errors in the Software Programs shall not constitute a breach of this Contract.

9. In the event that the Buyer discovers a material error which results in the Programmed Products not performing substantially in accordance with the Functional Specification, or the Licensed Programs not performing substantially in accordance with the relevant Program Documentation and notifies the Seller of the error within 90 days from the date of the Seller making available the respective software to the Buyer (the **`warranty period"**) the Seller shall at its sole option either refund the price which the Buyer has paid to the Seller (or if such price has not been paid, relieve the Buyer of all obligations to pay the sum) in respect of the respective software or use all reasonable endeavours to correct by patch or new release (at its option) that part of the software which does not so comply provided that such non-compliance has not been caused by any modification, variation or addition to the software not performed by the Seller or caused by its incorrect use, abuse or corruption of the software by use of the software with other software or on equipment with which it is incompatible,

10. To the extent permitted by English law, the Seller disclaims all other warranties, with respect to the software which it provides pursuant to the Contract, either express or implied, including but not limited to any implied warranties of satisfactory quality or fitness for any particular purpose.

11. The Buyer is solely responsible for various scanning the software that it receives from the Seller pursuant to the Contract.

12. The Seller warrants that it will use reasonable skill and care in providing the Services to the buyer